



Reference Device Programming

User Guide v1.0

1 Introduction

Nordic Semiconductor's [nRF52840 Dongle](#) is factory-programmed with the nRF5 SDK bootloader.

The firmware packages that are supported by the bootloader are programmed using the dongle's built-in USB bootloader.

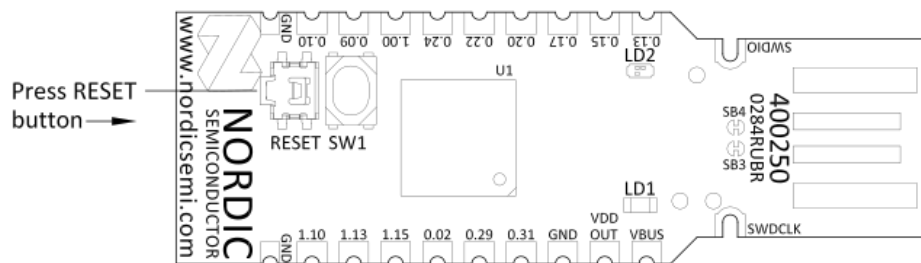
On Windows, program the nRF52840 Dongle using nRF Connect for Desktop.

2 Programming the nRF52840 Dongle

The [nRF Connect for Desktop](#) from Nordic Semiconductor, a cross-platform framework that contains applications for different development purposes, is used to program the dongle. One application is [nRF Connect Programmer](#) that is used to program firmware to Nordic devices.

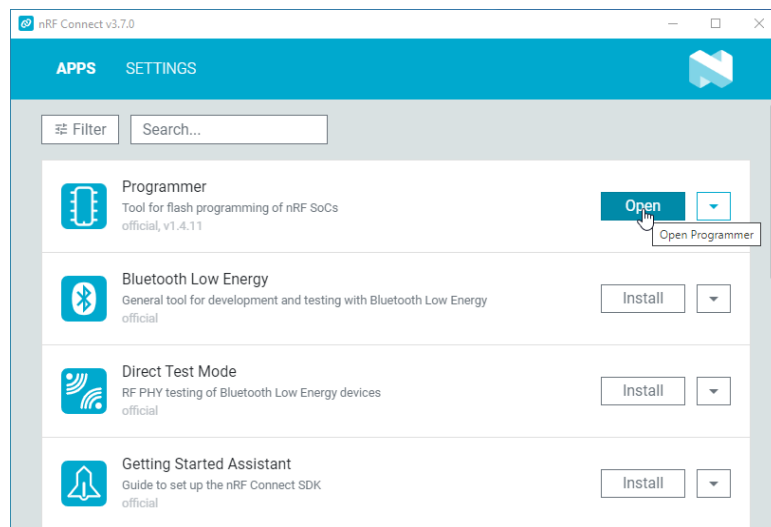
To program the nRF52840 Dongle using nRF Connect for Desktop and nRF Connect Programmer, complete the following steps:

1. [Install nRF Connect for Desktop](#).
2. Open nRF Connect for Desktop and [install nRF Connect Programmer](#).
3. Insert the dongle into a USB port.
4. Press the **RESET** button on the dongle to put it in the bootloader mode.

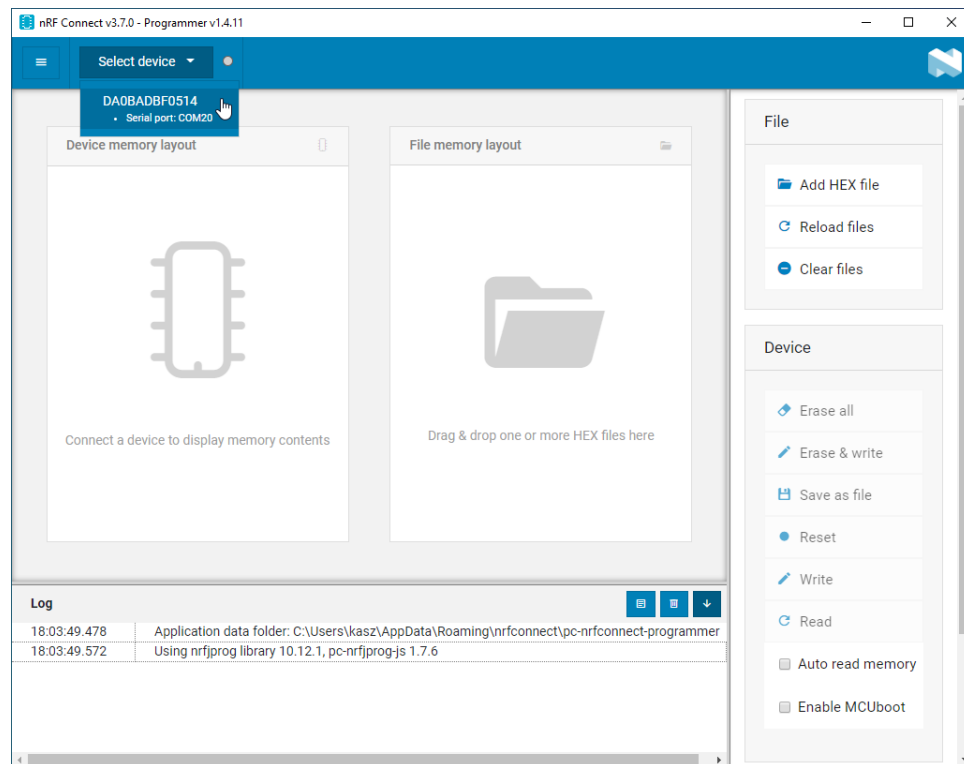


When the nRF52840 Dongle has entered the bootloader mode, **LD2** pulses red. The dongle is now ready for programming.

5. Open the Programmer application.

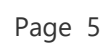
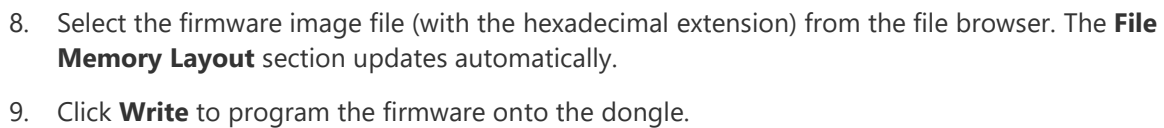


6. In the navigation bar in the Programmer application, click **Select device** and select the serial number of the dongle from the drop-down list.



The Programmer application updates the device memory layout for the device you selected.

7. Drag and drop the hexadecimal file into the **File Memory Layout** section. Or click **Add HEX file** on the right pane (named as **File**) to add the files you want to program by using one of the following options:
 - Select the files you used recently.
 - If there are no recently used files, click **Browse** from the drop-down list.



When the writing process completes, the device resets, and the **LD2** on the dongle stops pulsing and turns off. Unless the application uses the DFU Trigger Library, the dongle does not show up in the Programmer app, as it is not in the bootloader mode.

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Revision History

Date	Version	Description
July 19, 2021	v1.0	First release.